Question 22 (6 marks)

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A	student prepared	the compound	methyl i	propanoate in	a school	laboratory.
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(a) Give a common use for the class of compounds to which methyl propanoate belongs. ediment 22 - Il ver

Being an esta, it is used as a smeet-smelling

In the preparation of this compound a few drops of concentrated sulfuric acid (b) were added to the starting materials. The mixture was then refluxed for a period of time.

2

Why was it necessary to reflux the mixture?

Relieving the misture makes seve that the raction can like place at a high temperature while at the same time, the white pealurs do not except from the reaction. It is also a satory precaution as it ensures oxidising

Name the TWO reactants used in preparing the methyl propanoate and draw their (c) structural formulae.

3

